(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 16 June 2005 (16.06.2005)

PCT

(10) International Publication Number WO 2005/054531 A1

(51) International Patent Classification⁷: C22C 33/02, 38/22, 38/24, 38/26, 38/28

(21) International Application Number:

PCT/SE2004/001815

- (22) International Filing Date: 6 December 2004 (06.12.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0303289-3

5 December 2003 (05.12.2003) SI

- (71) Applicant (for all designated States except US): ERAS-TEEL KLOSTER AKTIEBOLAG [SE/SE]; Storgatan, S-815 82 SÖDERFORS (SE).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): WESTIN, Leif [SE/SE]; Bergslagsvägen 2, S-815 75 SÖDERFORS (SE).
- (74) Agents: KYLIN, Peter et al.; Hynell Patenttjänst AB, Patron Carls väg 2, S-683 40 HAGFORS/UDDEHOLM (SE).

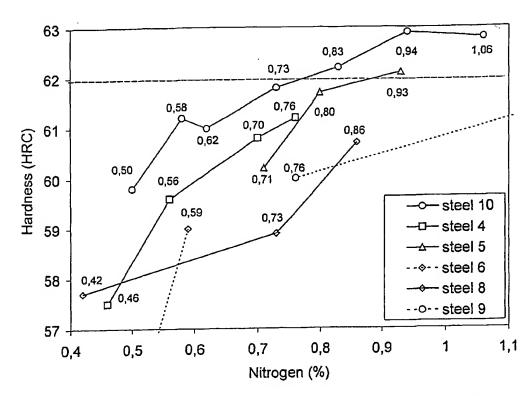
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE; EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]

(54) Title: MARTENSITIC CHROMIUM-NITROGEN STEEL AND ITS USE



(57) Abstract: A steel material having a good resistance to corrosion, consisting of an alloy containing in % by weight: max 0.12 C 0.5-1.5 N 12-18 Cr max 0.5 Mn max 0.5 Ni 1-5 (Mo + W/2) max 1.5 (V + Nb/2 + Ti) 0.1-0.5 Si from traces and up to max 2.0 Co from traces and up to max 0.1 S balance iron and essentially only impurities at normal contents.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.